

CLAIMS

What is claimed is:

- 5 ^{SUB}
^{B¹} 1. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of antisense oligonucleotide to the substantia nigra pars reticulata for the downregulation of glutamic acid decarboxylase.
- 10 2. The method of claim 1 wherein the isoform of said glutamic acid decarboxylase is GAD₆₅.
3. The method of claim 1 wherein the isoform of said glutamic acid decarboxylase is GAD₆₇.
- 15 4. The method of claim 1 where in the isoform of said glutamic acid decarboxylase is a combination of GAD₆₅ and GAD₆₇.
- 20 5. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of triplex oligonucleotide to the substantia nigra pars reticulata for the downregulation of glutamic acid decarboxylase.
- 25 6. The method of claim 5 wherein the isoform of said glutamic acid decarboxylase is GAD₆₅.
7. The method of claim 5 wherein the isoform of said glutamic acid decarboxylase is GAD₆₇.
- 30 8. The method of claim 5 wherein the isoform of said glutamic acid

decarboxylase is GAD₆₅ and GAD₆₇.

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9. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of antisense oligonucleotide to the internal globus pallidus for the downregulation of glutamic acid decarboxylase.

10. The method of claim 9 wherein said isoform of said glutamic acid decarboxylase is GAD₆₅.

11. The method of claim 9 wherein the isoform of said glutamic acid decarboxylase is GAD₆₇.

12. The method of claim 9 wherein the isoform of said glutamic acid decarboxylase is GAD₆₅ and GAD₆₇.

13. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of triplex oligonucleotide to the internal globus pallidus for the downregulation of glutamic acid decarboxylase.

14. The method of claim 13 wherein the isoform of said glutamic acid decarboxylase is GAD₆₅.

15. The method of claim 13 wherein the isoform of said glutamic acid decarboxylase is GAD₆₇.

16. The method of claim 13 wherein the isoform of said glutamic acid decarboxylase is GAD₆₅ and GAD₆₇.

17. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of antisense oligonucleotide to the substantia nigra pars reticulata for the downregulation of glutamate receptors.

5 18. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of triplex oligonucleotide to the substantia nigra pars reticulata for the downregulation of glutamate receptors.

10 19. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of antisense oligonucleotide to the internal globus pallidus for the downregulation of glutamate receptors.

15 20. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of triplex oligonucleotide to the internal globus pallidus for the downregulation of glutamate receptors.

20 21. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of antisense oligonucleotide to the thalamic motor nuclei for the downregulation of GABA receptors.

22. A method of treating Parkinson's disease in a mammal, comprising administering a therapeutically effective amount of triplex oligonucleotide to the thalamic motor nuclei for the downregulation of GABA receptors.

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